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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/787,160	02/27/2004	Kang Soo Seo	1740-000087/US	4609
30593	7590	10/30/2007	EXAMINER	
HARNESS, DICKEY & PIERCE, P.L.C.			VENT, JAMIE J	
P.O. BOX 8910			ART UNIT	PAPER NUMBER
RESTON, VA 20195			2621	
			MAIL DATE	DELIVERY MODE
			10/30/2007	PAPER

**Please find below and/or attached an Office communication concerning this application or proceeding.**

The time period for reply, if any, is set in the attached communication.

<b>Office Action Summary</b>	Application No.	Applicant(s)
	10/787,160	SEO ET AL.
	Examiner	Art Unit
	Jamie Vent	2621

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --  
**Period for Reply**

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

#### **Status**

- 1) Responsive to communication(s) filed on 20 September 2007.
- 2a) This action is **FINAL**.                                    2b) This action is non-final.
- 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

#### **Disposition of Claims**

- 4) Claim(s) 1-20 is/are pending in the application.
  - 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) Claim(s) \_\_\_\_\_ is/are allowed.
- 6) Claim(s) 1-20 is/are rejected.
- 7) Claim(s) \_\_\_\_\_ is/are objected to.
- 8) Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

#### **Application Papers**

- 9) The specification is objected to by the Examiner.
- 10) The drawing(s) filed on \_\_\_\_\_ is/are: a) accepted or b) objected to by the Examiner.
 

Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).

Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

#### **Priority under 35 U.S.C. § 119**

- 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
  - a) All    b) Some \* c) None of:
    1. Certified copies of the priority documents have been received.
    2. Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
    3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

#### **Attachment(s)**

- 1) Notice of References Cited (PTO-892)
- 2) Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) Information Disclosure Statement(s) (PTO/SB/08)  
Paper No(s)/Mail Date \_\_\_\_\_
- 4) Interview Summary (PTO-413)  
Paper No(s)/Mail Date. \_\_\_\_\_
- 5) Notice of Informal Patent Application
- 6) Other: \_\_\_\_\_

## **DETAILED ACTION**

### ***Response to Arguments***

1. Applicant's arguments, see amendment after final, filed September 17, 2007, with respect to Claim 1 have been fully considered and are persuasive. The final office action of May 17, 2007 has been withdrawn and the following is the pending final office action. Applicant's arguments with respect to claim 1 have been considered but are moot in view of the new ground(s) of rejection.

### ***Claim Rejections - 35 USC § 103***

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

2. Claims 1-20 are rejected under 35 U.S.C. 103(a) as being unpatentable over Nonomura et al (US 5734788) in view of Gunji (US 2002/0126994) in view of Lamkin et al (US 2004/0220791) in further view of Tagawa et al (US 6,615,192).

#### **[claims 1, 12 & 13]**

In regard to Claims 1, 12, and 13, Nonomura et al discloses an optical disc recording medium having a data structure for managing random shuffle reproduction of video data recorded on the recording medium, the data structure including:

- At least one title management information file (Figures 3b and 4 show title management information table as described in Column 6 Lines 28+ through Column 7 Lines 1-6);
- A stream directory area storing at least one clip containing video data associated with the playlist (Figure 2a shows the volume area where the digital data is stored as seen on Column 6 Lines 15-24)
- Each play item in the playlist is a unit to be randomized or shuffled during random/shuffle reproduction mode (Figures 7b and 0 show the random and shuffle reproduction of the playlist); however fails to disclose
- A playlist directory area storing at least one playlist including at least one play item;
- Wherein the title management information file includes at least one segment that is associated with at least one playlist in the playlist directory area and the title management information file is allocated in a given directory different from the playlist directory.

Gunji et al discloses a recording medium having a data structure for managing and reproducing video data. As further seen in Figure 6 the playlist directory includes playlist identifiers that allows for one segment of the title information to be directed to one specific playitem. The management of the playlist information as provided by the playlist directory allows for specific storage and editing of the play item that is associated with the playlist. It is additionally taught by Lamkin et al an information storage medium wherein various clips of information are arranged wherein the title

management information file contains segments as seen in Figure 10 and discussed in Paragraph 0373 and 0374. Furthermore, it is seen in Figure 10 that the title information file that is separated through playlist that allows the information to be stored through segments for easier reproduction and playback of the segments. Tagawa discloses a system wherein information is stored on various directories as seen in Figure 6. The management information, playlist information and other track information are each separately stored in different directories as further described in Column 9 Lines 34+ and additionally seen in Figure 10. The storing of information in different directories provides faster reproduction as well as providing a more efficient and safe system wherein data is more difficult to become corrupted. Therefore, it would have been obvious to one of ordinary skill in the art at the time of invention to use the managing of random shuffle reproduction, as disclosed by Nonomura, and further incorporate a system that associates playitems and playlists, as taught by Gunji et al, and further incorporate a system wherein title information is stored into segments of the file, as disclosed by Lamkin et al, and further incorporate the data being stored in different directories, as disclosed by Tagawa et al, to allow for more efficient and proper storage of data associated with each playlist.

**[claim 2]**

In regard to Claim 2, Nonomura et al discloses a recording medium wherein a title managed by the title management information file is a logical unit of video data that is regarded as a reproduction unit by users (Figure 3b shows the title management

information that stores the DVD data as video titles as described in Column 6 Lines 49-67).

**[claims 3 & 4]**

In regard to Claims 3 and 4, Nonomura et al discloses a recording medium wherein the title management file includes information on branch points information has segments, at which reproduction path is divided during reproduction (Column 9 Lines 43-68 describes the branch points and segments assigned to the reproduction paths as further described in Figure 7b).

**[claim 5,6, & 11]**

In regard to Claims 5, 6, and 11, Nonomura et al discloses a recording medium wherein the segments assigned to different reproduction paths are associated with a plurality of distinct playlist that are associated with distinct clips or disjoint intervals of one clip (Figure 8 shows the various clips wherein the VOB are the clips that are associated with the playlist as further described in Column 10 Lines 20-30 and thereby producing distinct/disjoint clips).

**[claims 7, 8, 9, & 10]**

In regard to Claims 7, 8, 9, and 10, Nonomura et al discloses a recording medium wherein a plurality of play items and the storing of random/shuffle block in the title management information wherein reproduction can occur with either a standard reproduction mode or a random/shuffle reproduction mode (Figures 7b and 0 show the title management information and it is further described in Column 9 Lines 43-Column 11 Line 30 the various reproduction modes that can occur).

**[claims 14 & 15]**

In regard to Claims 14 and 15, Nonomura et al discloses a method for reproducing a recording medium having a data structure for managing random/shuffle reproduction of video data, as discussed independent Claims 1, 12, 13, with the additional limitations:

- Drive for driving an optical recording means that records data on the recording medium (Figure 11 shows an optical disk drive 16 wherein an optical disk drive controlling unit 83 for controlling the drive and the data as further discussed in Column 12 Lines 58+ through Column 13 Lines 1-6).

**[claims 16, 17, 18, 19, & 20]**

In regard to Claims 16, 17, 18, 19, & 20, Nomonura et al discloses a method for reproducing a recording medium; however, fails to disclose that a given directory is a title directory area. Katz et al discloses a system wherein information is stored on various directories as seen in Figure 4b. The management information, playlist information and other track information are each separately stored in different directories as further described in Column 7 Lines 23-51 such as title directory area. The storing of information in different directories provide faster reproduction as well as providing a more efficient and safe system wherein data is more difficult to become corrupted. Therefore, it would have been obvious to one of ordinary skill in the art at the time of invention to use the managing of random shuffle reproduction, as disclosed by Nonomura, and further incorporate the data being stored in different directories, as disclosed by Katz et al.

***Conclusion***

3. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

***Contact Information***

4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jamie Vent whose telephone number is 571-272-7384. The examiner can normally be reached on 7:30am-5:00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, John Miller can be reached on 571-272-7353. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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